

Claims

- [1] A condensing apparatus of a dish washer for condensing vapor inside a dish washer tub, the condensing apparatus comprising:
an air duct for circulating and condensing vapor from inside the tub; and
a blower including a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct, and a dryer fan for providing suctioning force to suction vapor from inside the tub.
- [2] The condensing apparatus according to claim 1, wherein the condenser fan blows air along an outside of the air duct.
- [3] The condensing apparatus according to claim 1, wherein the blower further includes a motor for driving the condenser fan and the dryer fan together.
- [4] The condensing apparatus according to claim 3, wherein the motor has a rotating shaft to which both the condenser fan and the dryer fan are mounted.
- [5] The condensing apparatus according to claim 1, wherein the condenser fan is disposed at a front of the blower.
- [6] The condensing apparatus according to claim 1, wherein the dryer and/or the condenser fan is a cross-flow fan.
- [7] The condensing apparatus according to claim 1, wherein the blower is disposed at a top of the air duct.
- [8] The condensing apparatus according to claim 1, wherein the air duct includes a condensed water discharge port for discharging moisture condensed from the vapor and a split-type vapor exhaust port for exhausting vapor from which moisture has been removed.
- [9] The condensing apparatus according to claim 8, wherein the air duct further includes a portion between the condensed water discharge port and the vapor exhaust port, the portion being inclined at a predetermined angle to dispose the condensed water discharge port lower than the vapor exhaust port.
- [10] A condensing apparatus of a dish washer for condensing vapor inside a dish washer tub, the condensing apparatus comprising:
an air duct for circulating and condensing vapor from inside the tub;
a dryer fan for generating suctioning force to suction vapor from inside the tub into the air duct;
a motor for driving the dryer fan; and
a condenser fan for blowing air at the air duct to exchange heat with the vapor

circulating inside the air duct, the condenser fan driven by the motor.

- [11] The condensing apparatus according to claim 10, wherein the motor drives the dryer fan and the condenser fan together.
- [12] The condensing apparatus according to claim 11, wherein the motor has a rotating shaft to which both the dryer fan and the condenser fan are coupled.
- [13] The condensing apparatus according to claim 10, further comprising a blower to which the dryer fan, the motor, and the condenser fan are installed.
- [14] The condensing apparatus according to claim 13, wherein the condenser fan is disposed at a front of the blower.
- [15] The condensing apparatus according to claim 10, wherein the condenser fan blows air along an outside of the air duct.
- [16] The condensing apparatus according to claim 10, wherein the dryer fan and/or the condenser fan is a cross-flow fan.
- [17] A condensing apparatus of a dish washer comprising:
an air duct for circulating and condensing vapor from inside a dish washer tub;
and
a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct.
- [18] The condensing apparatus according to claim 17, wherein the condenser fan blows air along an outside of the air duct.
- [19] The condensing apparatus according to claim 17, wherein the condenser fan is disposed at a top of the air duct.
- [20] The condensing apparatus according to claim 17, further comprising a dryer fan providing suctioning force for suctioning the vapor into the air duct and a motor for driving the dryer fan, wherein the condenser fan is driven together with the dryer fan by the motor.